



**SUBSTITUTE SPECIFICATION  
(Clean Version)**  
**EXTERNAL ROTOR GAS TURBINE**  
**App. No: 10/090,260**

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**References Cited**

**U. S. Patent Documents**

2,592,938	Apr., 1952	McNaught
6,347,507	Feb., 2002	Lawler

Primary Examiner: Ehud Gartenberg

**ABSTRACT**

An external rotor gas turbine engine with the turbine consisting of a pressure vessel with single stage expansion nozzles located near the periphery tangentially oriented to provide reaction force torque to power the compressor and providing high velocity exhaust gases to, in the preferred embodiment, power an impulse turbine. An external rotor dynamic compressor supplies the rotating inlet of the turbine or combustor with compressed air. The entire outside of the engine rotates eliminating seals.

**18 Claims, 4 Drawing Sheets (attached)**